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(71) Applicant:
**Samsung Electronics Co., Ltd.
Suwon City, Kyungki-do (KR)**

(72) Inventors:
• **Cho, Gea-Ok**
c/o Samsung Electronics Co. Ltd.
Suwon-city, Kyungki-do 442-742 (KR)
• **Kim, Cheon-Sup**
Suwon-city, Kyungki-do (KR)

(74) Representative:
Chugg, David John et al
Appleyard Lees,
15 Clare Road
Halifax, West Yorkshire HX1 2HY (GB)

(54) **Transconductance variable method and circuit, and variable bandwidth filter and variable gain amplifier using same**

(57) A transconductance variable method and circuit, and a filter and an amplifier using the same. An output transconductance is set by selectively adding at least two transconductances (100, 102) which are identically set according to a select signal for variably selecting the output conductance.

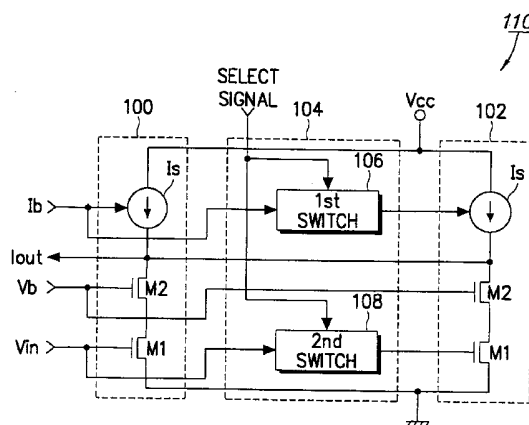


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 97 31 0156

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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A	* page 69, right-hand column, line 29 - page 72, right-hand column, line 9 * * page 74, right-hand column, line 17 - page 76, right-hand column, line 38 * * figures 1,3,8,12-15 *	6,8-11	
X	CASTELLO R ET AL: "LOW-VOLTAGE ANALOG FILTERS" IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS 1: FUNDAMENTAL THEORY AND APPLICATIONS,US,IEEE INC. NEW YORK, vol. 42, no. 11, 1 November 1995 (1995-11-01), pages 827-840, XP000549471 ISSN: 1057-7122	1,2	
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X	KYOKO TSUKANO ET AL: "SYNTHESIS OF OPERATIONAL TRANSCONDUCTANCE AMPLIFIER-BASED ANALOG FUZZY FUNCTIONAL BLOCKS AND ITS APPLICATION" IEEE TRANSACTIONS ON FUZZY SYSTEMS,US,IEEE INC. NEW YORK, vol. 3, no. 1, 1 February 1995 (1995-02-01), pages 61-68, XP000489900 ISSN: 1063-6706	1,2	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 27 March 2001	Examiner Radomirescu, B-M
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 97 31 0156

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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27-03-2001

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82